

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

11/19/10

Ryan Mingo
Assistant District Attorney, Suffolk County

Dear ADA Mingo,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Khan, and Peter Piro.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

I, Annie Khan (Dookhan), was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro was confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Annie Khan'.

Annie Khan (Dookhan)
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry

Experience:

2003 – present

Chemist II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.
- *Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of analytical instruments.
- *Maintain the Quality Control of analytical instruments and controls/standards.
- *Maintain the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the Massachusetts Biologic Laboratory, Quality Control and Quality Assurance Department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Method Development for creating new techniques for the QC Department.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept of Justice – Forensics Professionals

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with Massachusetts Biologic Laboratory and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Peter Piro

EDUCATION

Boston University

B.A. in Chemistry and Minor in Biology, 1989

HONORS

Magna Cum Laude, 3.6 GPA

Graduated with Distinction in Chemistry

Valedictorian of the Chemistry Department

EXPERIENCE

Department of Public Health/State Laboratory Institute

Laboratory Supervisor I/Chemist III, II, I/ Assistant Analyst December 1991-Present
Supervise the operation and maintenance of the Gas Chromatography/Mass Spectrometry Laboratory. Train staff and coordinate schedules. Analyze controlled substances for State and Federal law enforcement agencies. Develop, oversee, and make improvements to the GC/MS laboratory's quality assurance/quality control (QA/QC) program. Serve as the Technical Supervisor of the Drug Analysis Laboratory. Responsible for planning and implementing Quality Improvement (QI) projects. Make recommendations for protocols and procedures by developing methods so work can be performed in an accurate and efficient manner. Qualified as an expert witness in Massachusetts courts and U.S. District Court.

Massachusetts Health Research Institute

Laboratory Technician September 1990-December 1991
Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank using cELISA and bioassays.

TRAINING AND ORGANIZATIONS

- * Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- * Appointed Assistant Analyst by the Assistant Commissioner of Public Health in February 1991.
- * Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27th 1995 and a member of the Massachusetts Organization of State Engineers and Scientists.
- * Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.
- * Completed training in Mass Spectrometry Troubleshooting and Maintenance, October 25th 2002, at Agilent Technologies.* Notary Public since 1993.

No. [REDACTED]

Date Analyzed: 2-19-10

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 24 Cont: pb

Date Rec'd: 02/02/2010

No. Analyzed: 3

Gross Wt.: 16.36

Net Weight: 3.43

Tests: 18 ASD

• 6 P.P. 18

Prelim: cocaine @

Findings: Cocaine

SAMPLE # [REDACTED] AGENCY Boston ANALYST ASJ

Evidence Wt.

Gross Wt (24): 5.0802

Gross Wt (3): 0.5629

Pkg. Wt:

Net Wt:

Spot Tests

Cobalt
3 Thiocyanate (-) +

3 Marquis -

3 Froehde's -

3 Mecke's

Microcrystalline Tests

Gold
3 Chloride +

3 TLTA (-) +

OTHER TESTS

GC/MS CONFIRMATORY TEST

RESULTS

RESULTS CCCCCCCC

DATE 2-15-10

MS
OPERATOR P39

DATE 2-19-10

Sample #: _____

samples tested: _____

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.1950	0.0697	0.1253	26			
2	0.2050	0.0434	0.1616	27			
3	0.1623	0.0202	0.1421	28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

Calculations: *Net wt*

$$\begin{aligned} \text{Est Net wt} &= 0.4290 / 3 = 0.1430 (24) \\ &= 3 - 4320 \end{aligned}$$

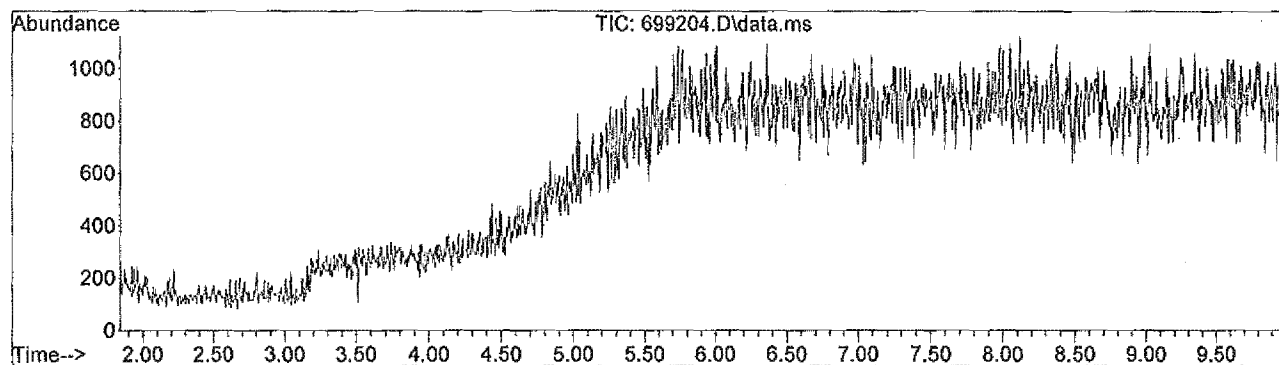
Area Percent / Library Search Report

✓ P.P. 2

11-5-10

Information from Data File:

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 Date Acquired : 18 Feb 2010 9:33
 Sample Name : BLANK
 Submitted by :
 Vial Number : 1
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



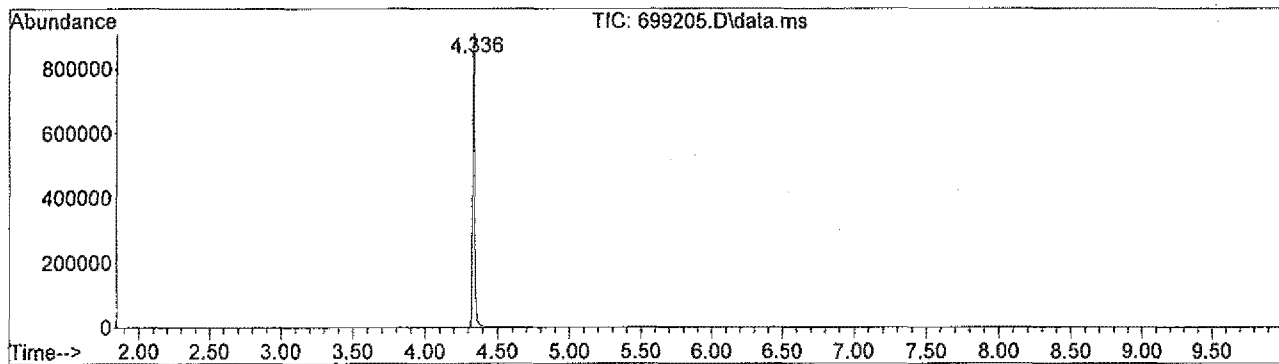
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

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 Operator : ASD
 Date Acquired : 18 Feb 2010 9:45
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.336	911595	100.00	100.00

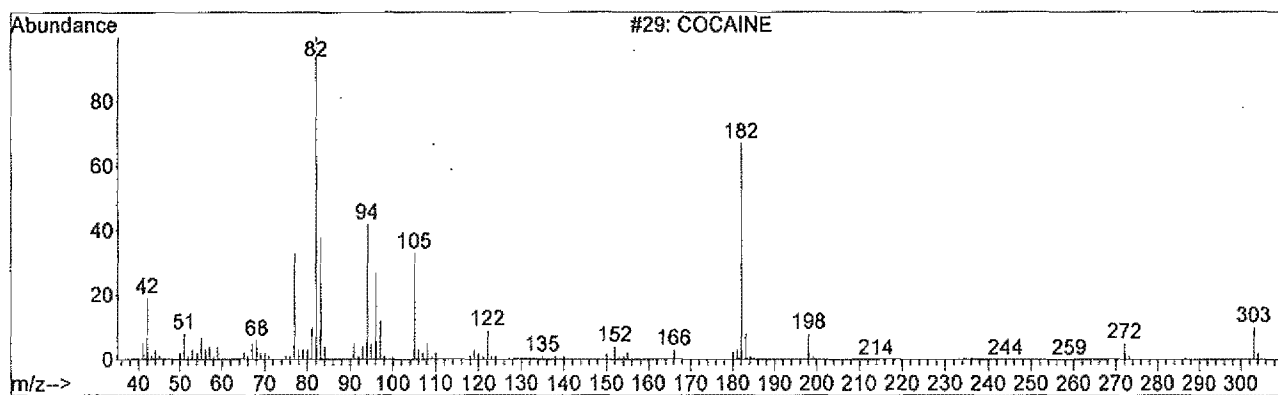
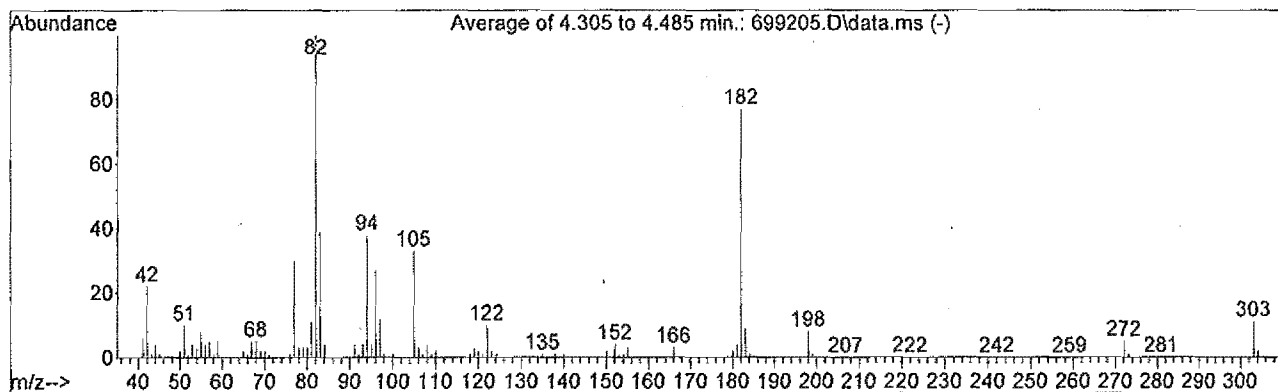
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 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

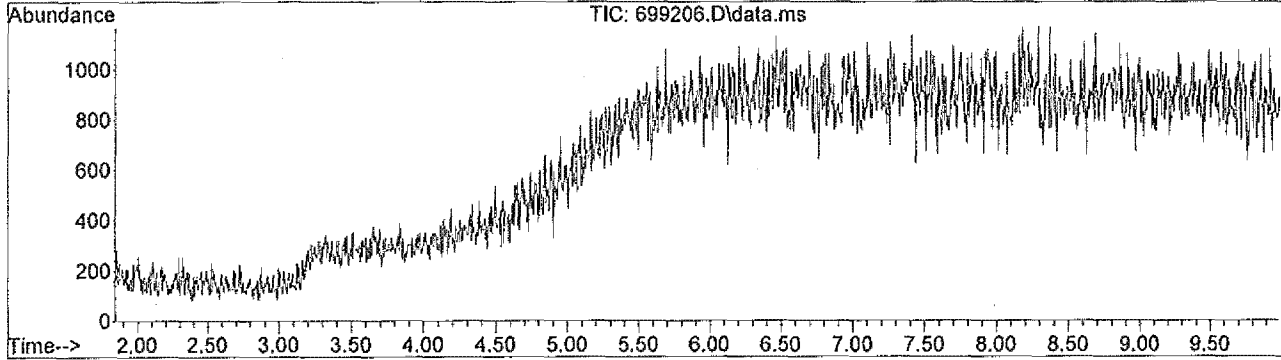
PK#	RT	Library/ID	CAS#	Qual
1	4.34	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

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File Name : F:\Q1-2010\SYSTEM7\02_18_10\699206.D
Operator : ASD
Date Acquired : 18 Feb 2010 9:58
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



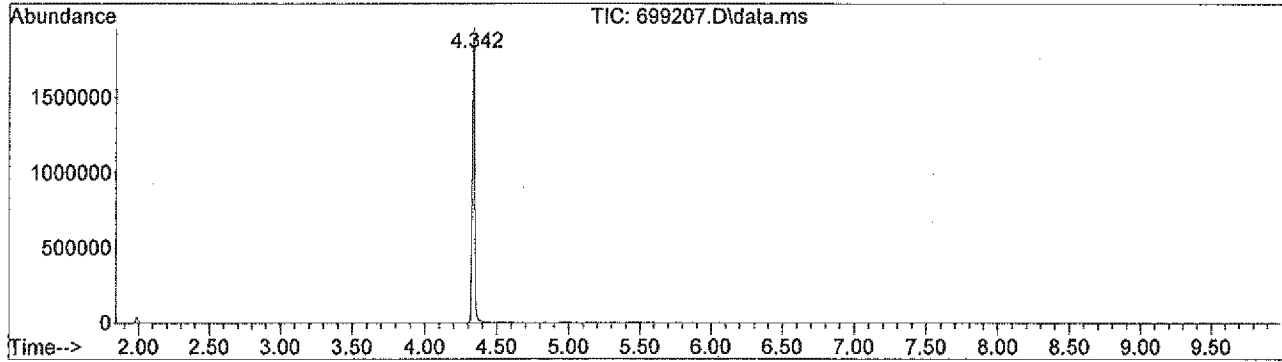
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2010\SYSTEM7\02_18_10\699207.D
 Operator : ASD
 Date Acquired : 18 Feb 2010 10:11
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 7
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.342	2296964	100.00	100.00

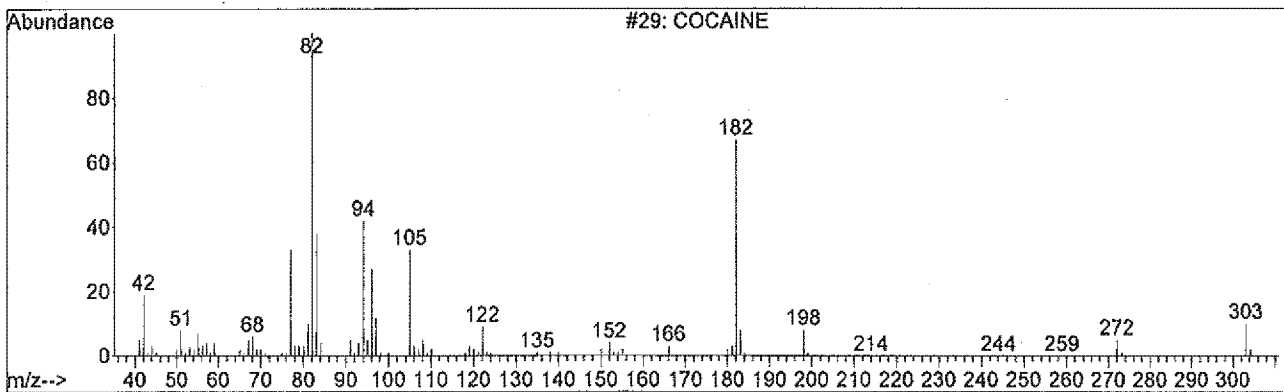
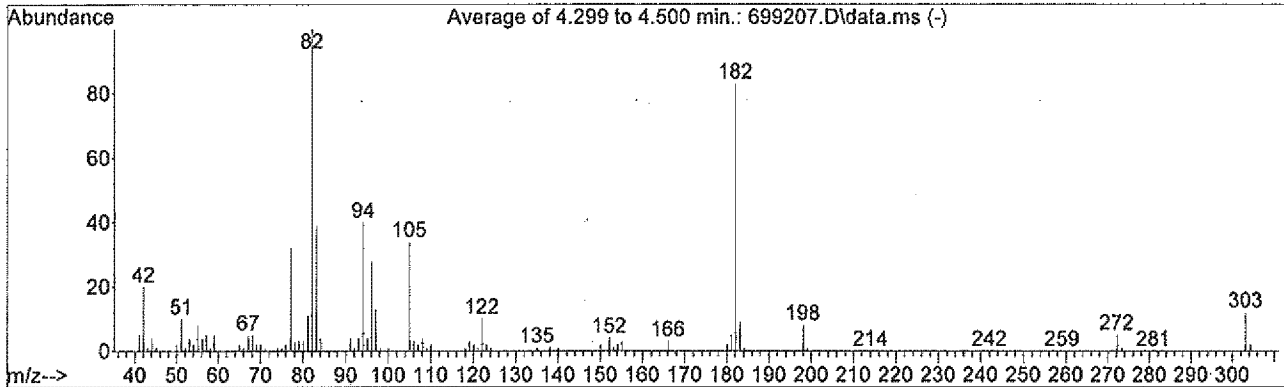
Area Percent / Library Search Report

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File Name : F:\Q1-2010\SYSTEM7\02_18_10\699207.D
 Operator : ASD
 Date Acquired : 18 Feb 2010 10:11
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 7
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

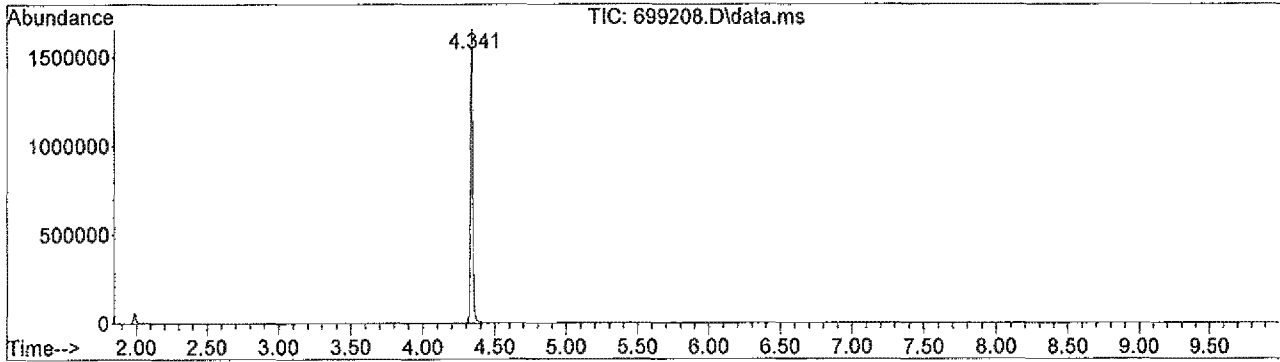
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Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2010\SYSTEM7\02_18_10\699208.D
 Operator : ASD
 Date Acquired : 18 Feb 2010 10:23
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 8
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.341	1889106	100.00	100.00

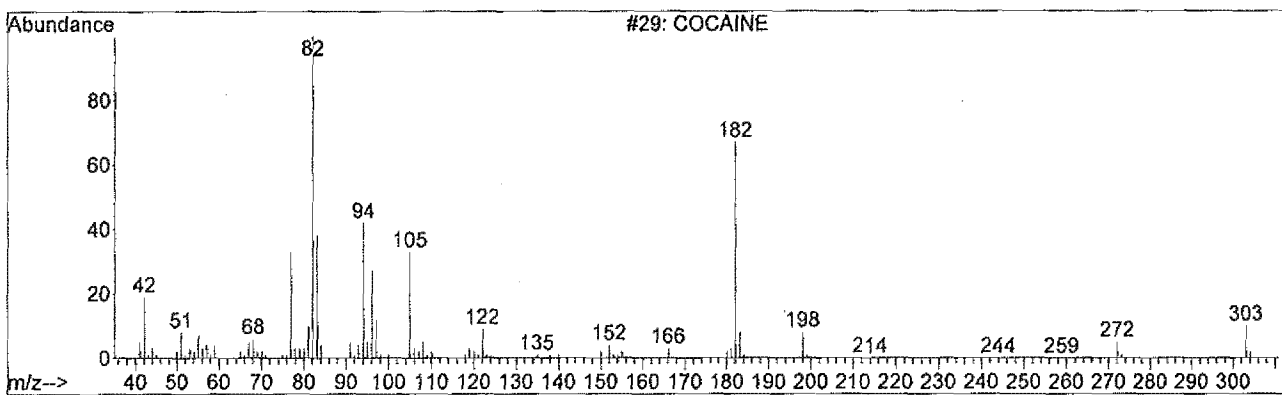
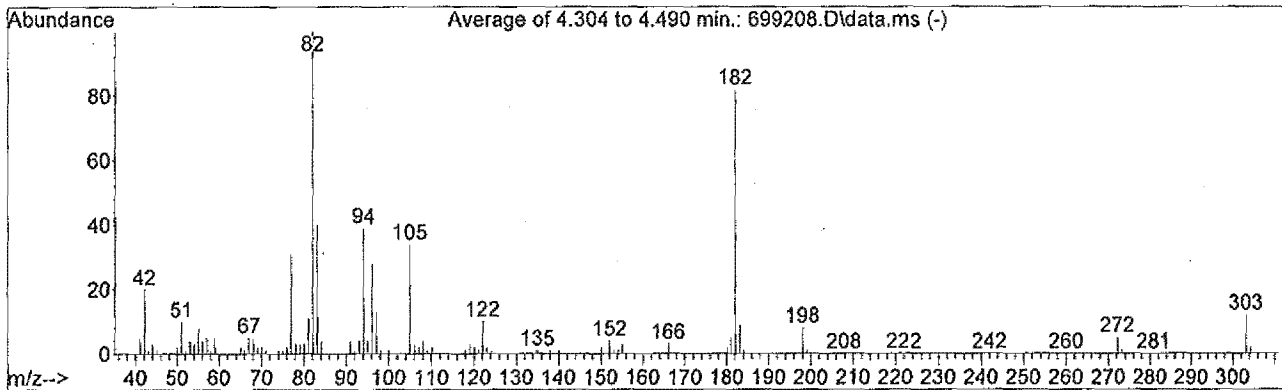
Area Percent / Library Search Report

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 Operator : ASD
 Date Acquired : 18 Feb 2010 10:23
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 8
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

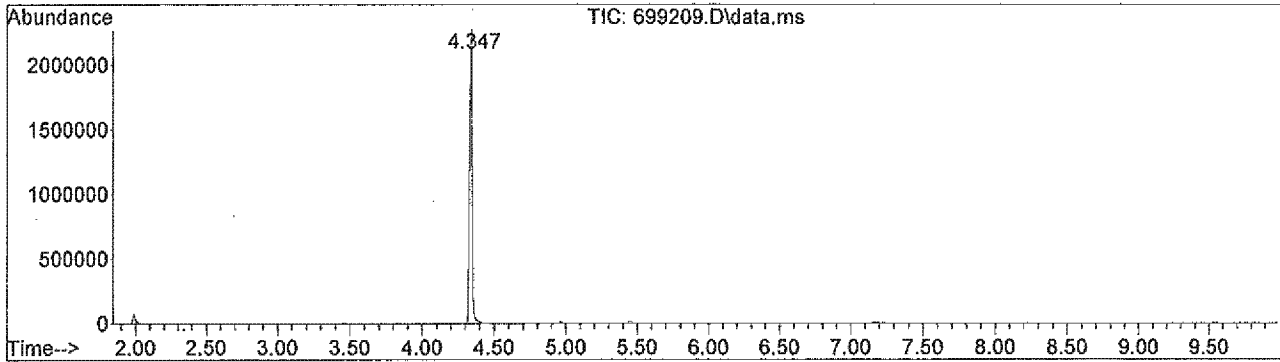
PK#	RT	Library/ID	CAS#	Qual
1	4.34	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2010\SYSTEM7\02_18_10\699209.D
 Operator : ASD
 Date Acquired : 18 Feb 2010 10:36
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 9
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.347	2969669	100.00	100.00

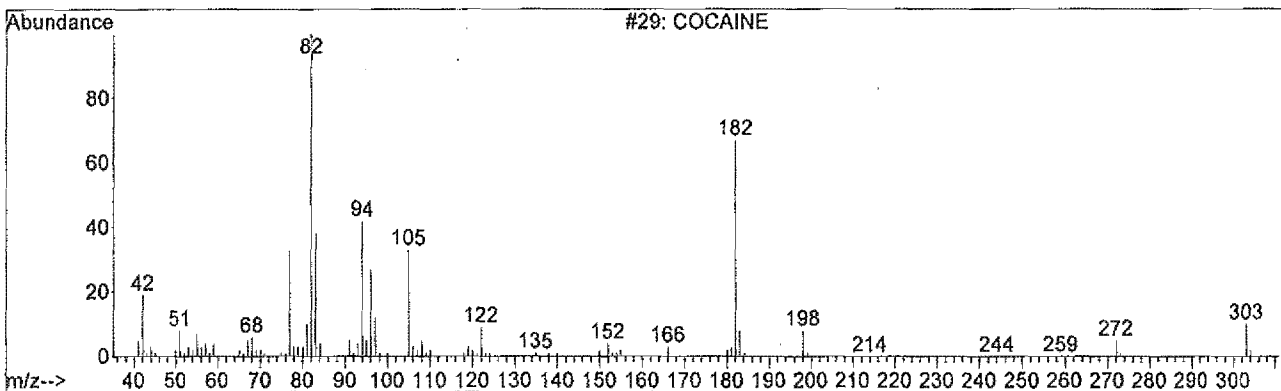
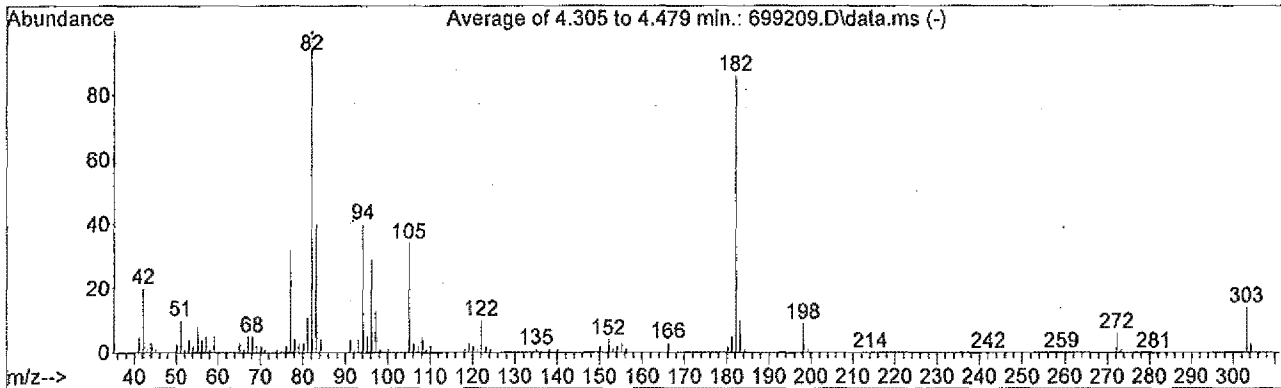
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2010\SYSTEM7\02_18_10\699209.D
 Operator : ASD
 Date Acquired : 18 Feb 2010 10:36
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 9
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

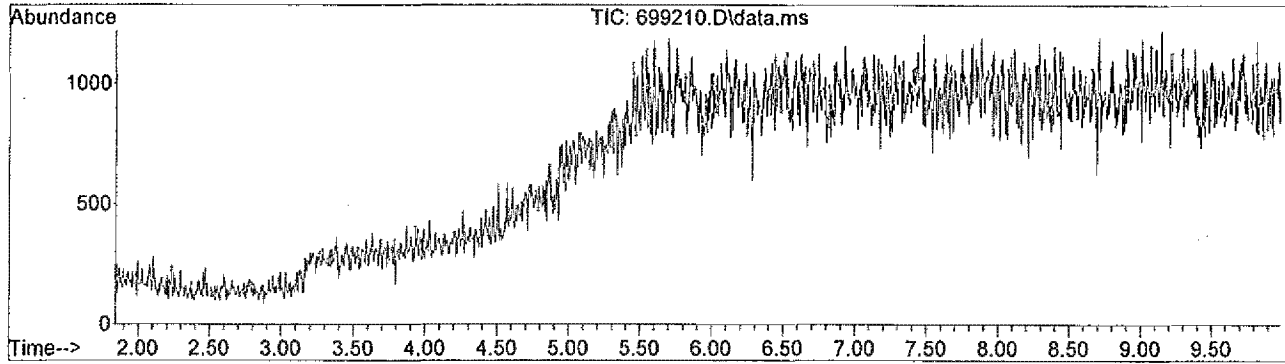
PK#	RT	Library/ID	CAS#	Qual
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Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2010\SYSTEM7\02_18_10\699210.D
Operator : ASD
Date Acquired : 18 Feb 2010 10:48
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



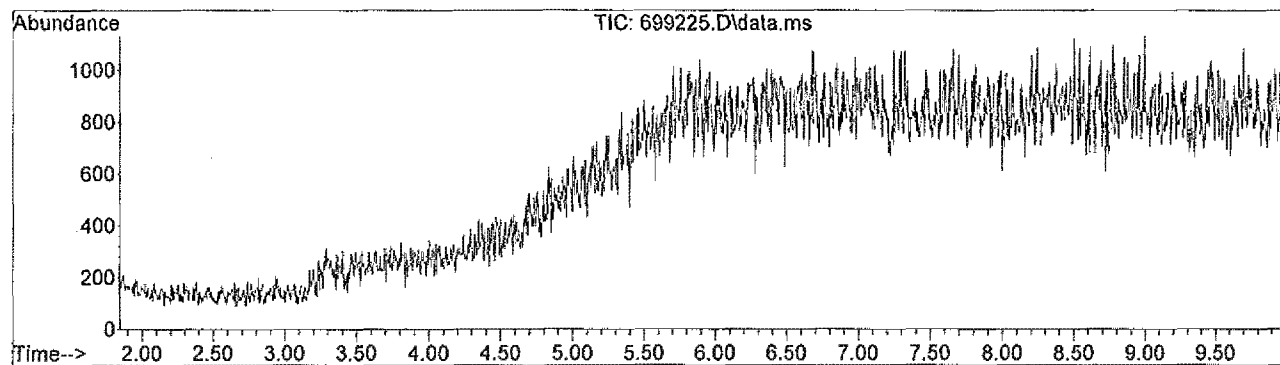
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2010\SYSTEM7\02_18_10\699225.D
Operator : ASD
Date Acquired : 18 Feb 2010 13:59
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



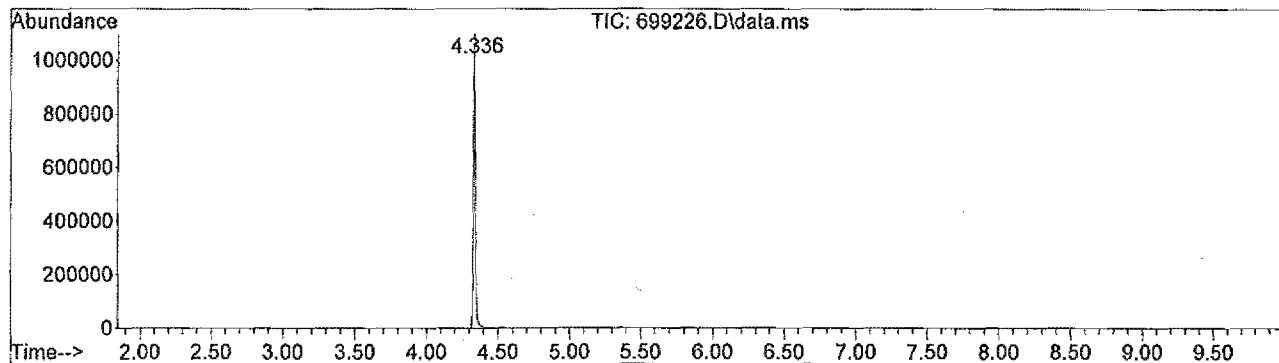
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2010\SYSTEM7\02_18_10\699226.D
 Operator : ASD
 Date Acquired : 18 Feb 2010 14:11
 Sample Name : COCAINE STD
 Submitted by : ASD
 Vial Number : 26
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.336	1061620	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2010\SYSTEM7\02_18_10\699226.D
 Operator : ASD
 Date Acquired : 18 Feb 2010 14:11
 Sample Name : COCAINE STD
 Submitted by : ASD
 Vial Number : 26
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.34	C:\Database\SLI.L COCAINE	000050-36-2	99

